# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D119-647 Rev. A AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D119-647 REV. 0

REF FAA STC: SR00949SE REF EASA STC: 10029107

REF CANADIAN LETTER OF ACCEPTANCE: C-11-0119, C-11-0120, C-11-0121

#### 1.0 PURPOSE

The purpose of this Dart Service Instruction is to add the D119-647-013 Bearpaw Kit to this approval. The D119-647-013 Bearpaw Kit is designed to be compatible with D119-646-211/-212/-213/-214 Skidtubes equipped with training wearplates. The D119-647-013 Bearpaw Kit is also compatible with the D119-646-XXX Skidtubes equipped with standard wearplates/wearpads.

#### 2.0 INSTALLATION

To install D119-647-013 Bearpaw Kit on Dart D119-646-XXX Skidtubes equipped with training wearplates refer to Figure 1 & 2 of this Service Instruction as well as the following:

- 2.1 Jack up the aircraft. Ensure the skidtubes are serviceable in accordance with ICA-D119-646.
- 2.2 Position D3034-3 Bearpaw on the aft end of each skidtube so that the bearpaw clamps are located on either side of the aft saddle as shown in Figure 1 of this Service Instruction. The Bearpaws should be installed over the training wearplates.
- 2.3 Attach the D2947 clamps with the hardware shown in Figure 2 of this Service Instruction. Additional AN960JD416 washers may be installed under the nuts to ensure 1.5-4 threads in safety on the bolts. Although not generally necessary, it is also acceptable to replace the AN4-23A bolts with longer or shorter AN4 bolts, if required.

CAUTION: The torque on the nuts should be limited to 20 in-lb (2.3 Nm)

- 2.4 Lower the aircraft.
- 2.5 Update the aircraft log book to indicate installation of the D119-647-013 Bearpaw and adjust the empty weight and balance record for the rotorcraft with the information given in section 5.0 of this service instruction.

#### 3.0 MAINTENANCE

The D119-647-013 Bearpaw Installation should be maintained in accordance with ICA-D119-647.

	BALAN	CE, UPDATE	BOLT LENGTH	Α	12.10.10
Α	NEW IS	SSUE		AP	12.04.13
REV.			DESCRIPTION	BY	DATE
DESIGN		AP	DART AEROSPACE USA, INC		
DRAWN		AP	KENT, WA		
CHECKED		P	DRAWING NO.		REV. B
MFG. APPR.		N/A	DSI 9607	8	SHEET 1 OF 3
APPROVED		NO	TITLE		SCALE
DE APPR.			BEARPAW INSTALLATION		NTS
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12.10.10

REDESIGN OF D3034-3, UPDATED WEIGHT AND

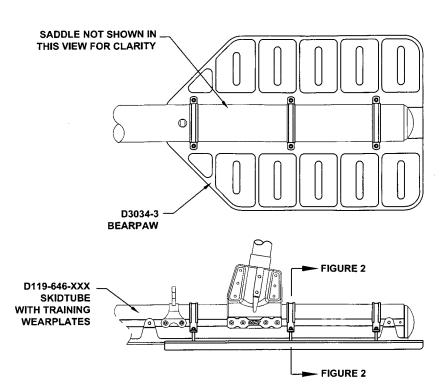


Figure 1 - Bearpaw Location

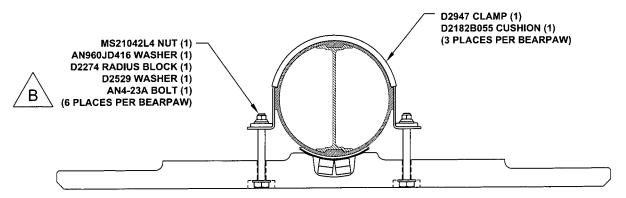


Figure 2 - Bearpaw Installation

DESIGN	AP	DART AEROSPACE	USA, INC
DRAWN	AP	KENT, WA	
CHECKED	P	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9607	SHEET 2 OF 3
APPROVED	149	TITLE	SCALE
DE APPR.	dif	BEARPAW INSTALLATION	NTS
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## 4.0 PARTS LIST

QTY -013	PART NUMBER	DESCRIPTION
>	D119-647-013	BEARPAW INSTALLATION
6	D2182B055	CUSHION
12	D2274	RADIUS BLOCK
12	D2529	WASHER
6	D2947	CLAMP
2	D3034-3	BEARPAW
12	AN4-23A	BOLT
12	AN960JD416	WASHER
12	MS21042L4	NUT



### **5.0 WEIGHT AND BALANCE**

INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		ARM	MOMENT	ARM	MOMENT
D119-647-013 Bearpaw Installation	17.6 lb 7.98 kg	0.0 in 0.0 m	0.0 in-lb 0.0 m-kg	173.2 in 4.40 m	3048 in-lb 35.1 m-kg

DESIGN	AP	DART AEROSPACE	USA, INC	
DRAWN	AP	KENT, WA		
CHECKED	P.	DRAWING NO.	REV. B	
MFG. APPR.	N/A	DSI 9607	SHEET 3 OF 3	
APPROVED	10	TITLE	SCALE	
DE APPR.	44	BEARPAW INSTALLATION	NTS	
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